



NATIONAL  
AGRICULTURAL  
STATISTICS  
SERVICE

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# KENTUCKY WEEKLY CROP & WEATHER REPORT



In Cooperation with:  
Univ. of Ky - Agr'l Weather Center  
U.S. Dept. of Commerce - NOAA  
Kentucky Department of Agriculture  
Cooperative Extension Service

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**AGRICULTURAL NEWS:** The State had excessively hot and dry weather, which stressed crops. Rain is needed to maintain soybean and tobacco growth and quality. Crops that received rain last week are doing well. **Topsoil moisture** as of Friday, July 29, was rated 13 percent very short, 39 percent short, 43 percent adequate, and 5 percent surplus. **Subsoil moisture** was rated 11 percent very short, 38 percent short, 49 percent adequate, and 2 percent surplus. Fieldwork for the week ending July 29, averaged 5.9 days out of a possible 7 days. It was almost too hot to be out in the field last week, but the primary fieldwork continued to be topping and spraying of tobacco, harvesting hay, and clipping pastures.

**TOBACCO:** Most producers report that the tobacco is doing well. Although with the hot, dry weather there are some parts of the State that tobacco needs rain. There has been very few reports of disease and insect problems in the tobacco. The most common reported disease has been black shank. As of Friday, July 29, the condition of set tobacco was reported as 3 percent very poor, 10 percent poor, 32 percent fair, 45 percent good, and 10 percent excellent. Forty-seven percent of burley tobacco was blooming or beyond, which was behind both last year and the 5 year average of 61 percent. Twenty-five percent of burley tobacco has been topped, behind both last year's 34 percent, and the 5 year average of 36 percent. Dark tobacco topped reached 75 percent, which was ahead of both last year's 66 percent and the 5 year average of 65 percent.

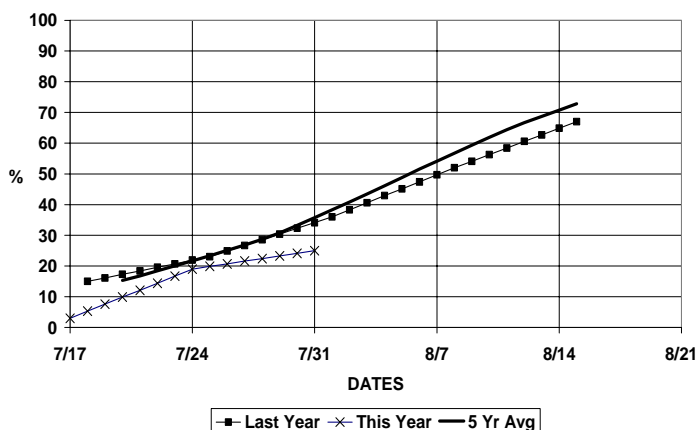
**CORN:** The corn improved in fields that received rain last week. The corn quality and yield potential has declined in areas of the State that did not receive rain. The condition of the corn was rated 5 percent very poor, 7 percent poor,

28 percent fair, 38 percent good, and 22 percent excellent. Ninety-six percent of the corn has silked or was silking as of Sunday, July 31, just ahead of last year's 94 percent, and the 5 year average of 91 percent. Fifty-nine percent of corn was in the milk stage or beyond, behind last year's 73 percent, and the 5 year average of 69 percent. Thirty-five percent of the corn has reached the dough stage or beyond, behind both last year's 43 percent and the 5 year average of 45 percent. Twelve percent of the corn had reached the dent stage, behind last year's 18 percent and the 5 year average of 15 percent.

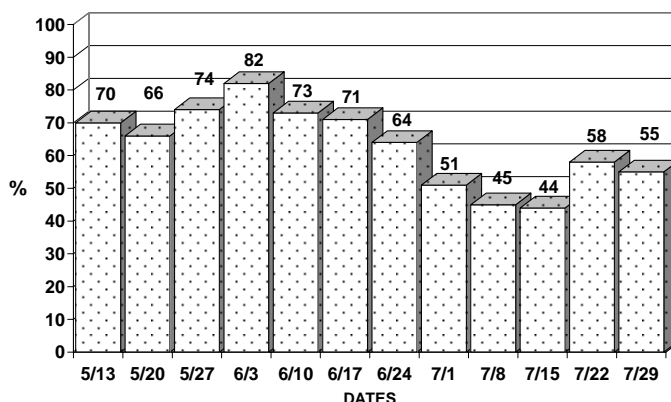
**SOYBEANS:** As of Sunday, July 31, 72 percent of soybeans were blooming, well ahead of last year and the 5 year average of 62 percent. Fifty-one percent of the soybeans were setting pods or beyond. This is ahead of both last year's 40 percent, and the 5 year average of 34 percent. The soybean condition was rated 2 percent very poor, 6 percent poor, 20 percent fair, 48 percent good, and 24 percent excellent. Soybeans are the crop least affected by the dry weather, but both the single crop and double crop soybeans are in need of rain for continued development.

**OTHER CROPS:** Due to the hot dry summer, some farmers are starting to feed their winter feed supply to the livestock. The hay conditions declined from last week with seventy-five percent of the hay rated fair or worse, compared to sixty-three percent last week. Hay condition as of Friday, July 29 was rated 9 percent very poor, 20 percent poor, 46 percent fair, 21 percent good, and 4 percent excellent. Pastures have declined as well, with pasture conditions as of Friday, July 29 rated 9 percent very poor, 26 percent poor, 42 percent fair, 21 percent good, and 2 percent excellent.

BURLEY TOBACCO PERCENTAGE TOPPED



BURLEY TOBACCO CONDITION  
% Good to Excellent



## KENTUCKY CROP PROGRESS

WEEK ENDING JULY 31, 2005  
WITH COMPARISONS

Crop Stage	This Week	Previous Year	5-Yr. Avg.	Previous Week KY	U.S.
Percentage					
Soybeans					
Blooming	72	62	62	70	81
Setting Pods	51	40	34	46	36
Corn					
Silking	96	94	91	94	79
Milk Stage	59	73	69	57	NA
Dough Stage	35	43	45	22	14
Dent Stage	12	18	15	NA	NA
Burley Tobacco					
Blooming	47	61	61	40	NA
Topped	25	34	36	19	NA
Dark Tobacco					
Topped	75	66	65	NA	NA

(NA)Data Not Available.

## SOIL MOISTURE

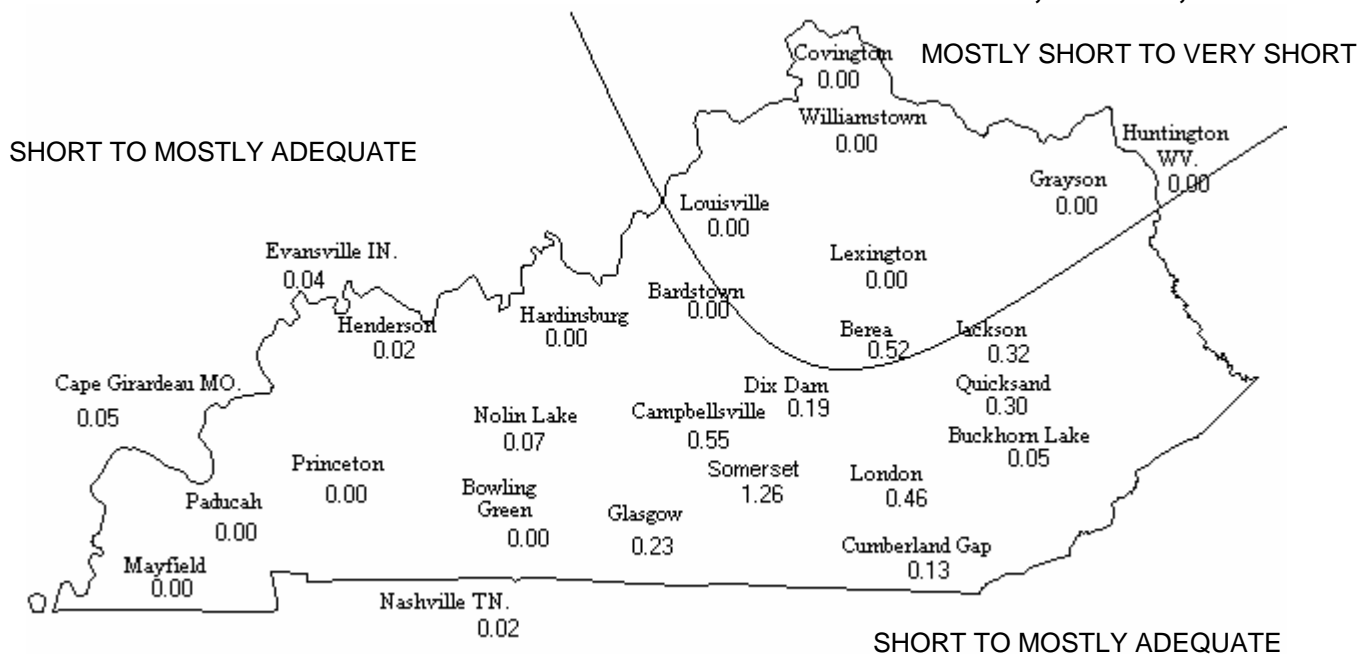
WEEK ENDING JULY 29, 2005  
WITH COMPARISONS

	This Week	Previous Week
Percentage		
<b>TOPSOIL</b>		
Very Short	13	5
Short	39	22
Adequate	43	69
Surplus	5	4
<b>SUBSOIL</b>		
Very Short	11	9
Short	38	32
Adequate	49	57
Surplus	2	2

## KENTUCKY CROP CONDITIONS (Percent)

WEEK ENDING JULY 29, 2005						WEEK ENDING JULY 22, 2005					
CROP	VERY POOR	POOR	FAIR	GOOD	EXCEL-LENT	VERY POOR	POOR	FAIR	GOOD	EXCEL-LENT	
Corn	5	7	28	38	22	2	7	30	40	21	
Soybeans	2	6	20	48	24	2	3	19	57	19	
Pasture	9	26	42	21	2	7	23	40	27	3	
Hay Crops	9	20	46	21	4	4	19	40	29	8	
Tobacco	3	10	32	45	10	3	12	27	51	7	

## PRECIPITATION MAP FOR WEEK ENDING SUNDAY, JULY 31, 7:00 P.M. TOPSOIL MOISTURE DELINEATION FOR WEEK ENDING FRIDAY, JULY 29, 2005



## **KENTUCKY WEATHER SUMMARY, JULY 25 – 31, 2005:**

**Above Normal Temperatures and Below Normal Precipitation:**

Heat advisories and excessive heat warnings blanketed the State on Monday and Tuesday as high temperatures climbed into the middle and upper 90's. Dew point readings in the middle to upper 70's forced heat index values to range from 100-110 degrees. The summer livestock stress index was in the emergency and danger categories for several hours these days. Light winds from the southwest provided little relief from the heat. On Wednesday a weak cold front moved into Kentucky. A light band of showers along the front eventually fizzled out over the Bluegrass region of the State. Ahead of the front, numerous thunderstorms popped up across eastern Kentucky. Some turned severe, as they dropped as much as an inch of precipitation across some locales. The weather was dry again during the weekend. Dew points dropped into the lower 60's, and daytime highs returned to more normal levels in the 80's. Eight of the past 10 weeks have had below normal precipitation. Six of the past eight weeks have had above normal temperatures.

Temperatures for the period averaged 79 degrees across the State which was 2 degrees above normal. High temperatures averaged from 88 in the West to 89 in the East. Departure from normal high temperatures ranged from 1 degree below normal in the West to 4 degrees above normal in the East. Low temperatures averaged from 67 degrees in the West to 69 degrees in the East. Departure from normal low temperature ranged from 1 degree above normal in the West to 4 degrees above normal in the East. The extreme high temperature was 97 degrees in Covington and Glasgow. The extreme low temperature was 57 degrees in Paducah. Rainfall for the period totaled 0.13 inches statewide which was 0.93 inches below normal. Precipitation totals by climate division, West 0.02 inches, Central 0.05 inches, Bluegrass 0.12 inches and East 0.31 inches, which was 0.91, 1.06, 0.94 and 0.82 inches respectively below normal. By station, precipitation totals ranged from a low of 0.00 inches at Bardstown, Bowling Green, Covington, Grayson, Hardinsburg, Lexington, Louisville, Mayfield, Paducah, Princeton, Spindletop, and Williamstown to a high of 1.26 inches at Somerset.

Tom Priddy

### **KENTUCKY TEMPERATURES AND RAINFALL**

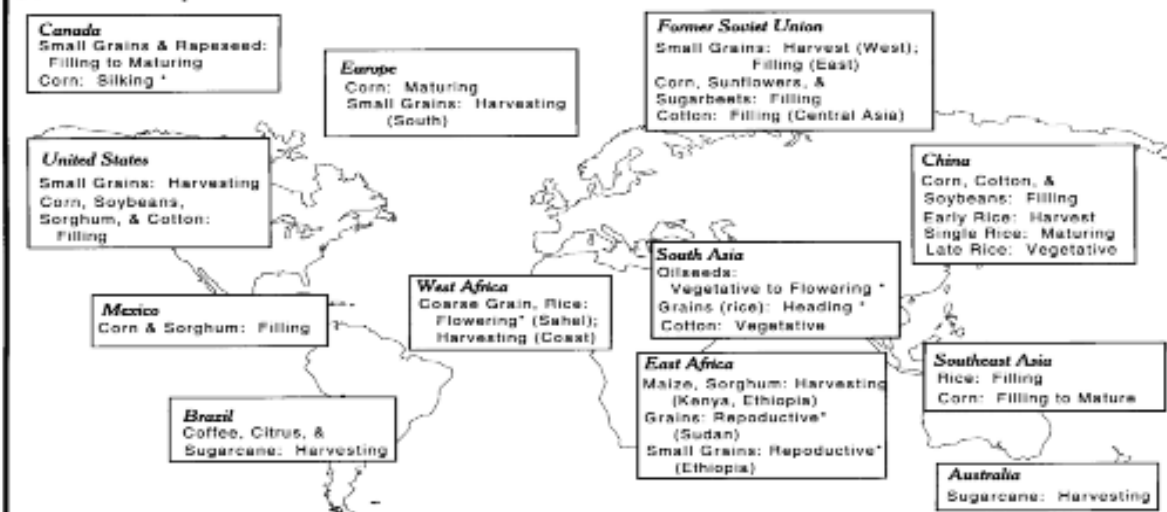
**FOR WEEK ENDING SUNDAY, JULY 31, 7:00 P.M.**

Weather Station	Rainfall			Deviation From		Air Temperature				Growing Degree Days		
	Last Week	Since April 1	Last Four Wks	Norm Since Apr. 1	Norm Last 4 Wks	High	Low	Wkly. Avg.	Dev. From Norm	Last Week	Since Apr. 1	Dev. Since Apr. 1
	(Inches)					(Degrees Fahrenheit)						
Bardstown	0.00	14.88	3.27	-2.13	-1.25	95	60	77.9	+2	179	2239	+70
Berea	0.52	15.70	5.76	-1.74	+1.77	92	65	79.4	+4	192	2342	+111
Bowling Green	0.00	14.43	4.32	-3.74	+0.04	94	63	79.0	+3	191	2339	+78
Bristol	0.31	17.64	5.41	+2.58	+1.51	92	63	77.4	+2	180	2088	+41
Buckhorn Lake	0.05	9.87	1.57	-6.98	-2.80	95	63	78.8	+4	187	2266	+310
Cape Girardeau	0.05	17.08	5.66	+0.45	+2.46	96	58	77.9	+0	180	2392	+8
Campbellsville	0.55	17.42	5.69	-2.04	+0.84	95	63	79.6	+4	188	2332	+131
Covington	0.00	10.10	1.69	-6.01	-2.14	97	60	78.1	+3	181	2130	+112
Cumberland Gap	0.13	10.13	3.05	-8.29	-1.71	95	63	78.5	+3	185	2262	+245
Dix Dam	0.19	14.35	4.37	-3.24	-0.11	94	63	78.8	+4	187	2260	+91
Evansville	0.04	11.98	2.69	-4.32	-0.96	94	57	76.4	-1	172	2269	+7
Glasgow	0.23	18.98	6.21	-0.54	+1.41	97	63	80.7	+5	191	2445	+274
Grayson	0.00	13.14	3.15	-3.45	-1.24	95	66	80.4	+5	193	2272	+377
Hardinsburg	0.00	12.69	3.05	-5.05	-1.26	94	59	77.4	+1	179	2285	+24
Henderson	0.02	13.52	4.07	-3.17	+0.38	95	60	77.5	-0	178	2320	+28
Huntington	0.00	13.02	3.40	-3.47	-1.05	96	66	80.9	+6	195	2284	+236
Jackson	0.32	16.83	2.88	-0.82	-1.86	94	67	78.8	+4	188	2282	+326
Lexington	0.00	11.44	2.88	-5.57	-1.64	94	63	79.2	+4	188	2193	+145
London	0.46	14.36	3.31	-2.20	-0.99	93	65	77.9	+3	185	2174	+157
Louisville	0.00	13.19	3.25	-3.63	-0.82	95	60	77.3	+1	177	2227	-35
Mayfield	0.00	10.38	2.86	-7.54	-1.20	95	63	78.9	+1	187	2282	-40
Nashville	0.02	12.59	1.93	-4.20	-1.66	96	67	81.5	+5	199	2485	+71
Nolin Lake	0.07	14.66	3.76	-4.32	-0.80	95	62	78.6	+3	187	2327	+249
Paducah	0.00	13.03	4.23	-5.16	+0.45	94	57	77.3	-1	177	2387	+34
Princeton	0.00	11.63	2.32	-6.27	-1.55	96	59	78.6	+1	184	2406	+84
Quicksand	0.30	13.65	2.58	-4.00	-2.16	95	63	78.9	+4	187	2271	+315
Somerset	1.26	16.72	5.52	-1.83	+1.10	94	64	79.6	+4	189	2233	+125
Spindletop	0.00	9.71	3.21	-7.30	-1.31	93	61	77.5	+2	180	2135	+87
Williamstown	0.00	10.88	2.37	-5.98	-1.72	96	62	78.6	+3	184	2159	+111

The above information is provided by Tom Priddy, Kentucky Extension Agricultural Meteorologist, University of Kentucky Agr'l Weather Center (859)257-3000 ext 245. E-mail: priddy@uky.edu Additional Ky weather data available on Internet at: <http://www.wagwx.ca.uky.edu/>

## August normal crop calendar

### Summer crops



### Winter crops



\* Moisture / Temperature Sensitive Stage of Development

JOINT AGRICULTURAL WEATHER FACILITY (NOAA/USDA)

This release and others can be viewed on the Internet at <http://www.nass.usda.gov/ky/> For a free E-Mail subscription of the Kentucky Weekly Crop & Weather report, on the Internet go to <http://www.nass.usda.gov/sub-form.htm> and follow the instructions.